



Binder Ignition System

HM-378 • Meets applicable ASTM and AASHTO standards • True economy from manual operation testing time comparable to automated units • Accuracy of results equal to automated units • Memory capacity for 10

time/temperature programs Gilson's original proven HM-378 Binder Ignition System offers a true Economy Model option. Most specifications permit use of a furnace without internal loss-of-mass measurement, and results have proven to be equal or better than with the automatic systems. Main disadvantages are a bit longer test times (to be sure ignition is complete) and a bit larger physical size of the furnace itself. During the test cycle, the temperature rises substantially above setpoint, as asphalt is burned, peaks, and gradually returns to setpoint. In the HM-378 furnace, the unit is user programmed to remain locked for a designated time after return of temperature to setpoint. This time delay, or de-coking period, is based on user experience with sample types and/or specification requirements. If test completion is in doubt or when determining the time delay to program for a new sample type, the sample is merely returned to the furnace for 5 to 10 minute added times until completion is confirmed. The stainless steel case has a drop door to serve as a shelf for ease of sample tray handling. Heating elements are quality Kanthal A-1 and easily accessible for inexpensive replacement if necessary. The controller has memory for up to ten timed programs with selected chamber and afterburner setpoints. A general purpose program memory with multiple ramps and dwells is also provided for glassware cleaning or other applications.